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Claims

The claims follow as they currently stand. No claim amendments are made herein.

- 1 1. (Original) A portable communication device comprising:
2 at least one processor coupled to at least one transceiver; and
3 an identity module removeably coupled to the processor, wherein information of
4 the identity module controls operation of the device, wherein the processor receives
5 binding information including identification information from components of the device
6 and subscriber information from the identity module, forms an association between the
7 device and the module by assigning a device identification (DID) to the binding
8 information, generates at least one binding file in a memory area of the module, and
9 stores the device identification and the binding information in the binding file.
- 1 2. (Original) The device of claim 1, wherein the identity module is at least one
2 of a Subscriber Identity Module (SIM), a SIM card, a User Identity Module (UIM), a
3 UIM card, a digital data storage device, a smart card, a compact flash memory device,
4 and a portable memory device.
- 1 3. (Original) The device of claim 1, wherein the identification information
2 includes at least one of an International Mobile Equipment Identity (IMEI), a Type
3 Approval Code (TAC), a Final Assembly Code (FAC), a Serial Number (SNR), an
4 Electronic Serial Number (ESN), an embedded digital signature, a device model,
5 information of a software version of the portable communication device, and
6 configuration information of the portable communication device.
- 1 4. (Original) The device of claim 1, wherein the memory area of the module
2 includes a non-volatile memory.

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1 5. (Original) The device of claim 1, wherein the device is at least one of
2 personal computers, portable computing devices, cellular telephones, portable telephones,
3 portable communication devices, and personal digital assistants.

1 6. (Original) A communication device comprising a control subsystem that
2 forms an electronic linkage between the device and a removeably coupled identity
3 module, wherein the control subsystem reads identification information of the
4 components and the identity module and, in response, dynamically links the device to the
5 identity module by writing the identification information to a binding file of the identity
6 module along with an assigned device identification corresponding to the device and
7 identity module combination, wherein information of the binding file controls subsequent
8 activation and operation of the device in a communication network.

1 7. (Original) A portable communication device comprising:
2 means for receiving identification information from components of the device;
3 means for receiving subscriber information from a module removeably coupled to
4 the device;
5 means for electronically associating the device with the module by assigning a
6 device identification (DID) to binding information including the identification
7 information and the subscriber information; and
8 means for generating a binding file in a memory area of the module and storing
9 the device identification and the binding information in the binding file.

1 8. (Original) A communications system comprising:
2 a communications network including a plurality of network components; and
3 at least one personal communication device coupled to the network for use by
4 subscribers in transmitting and receiving information, the communication device
5 including at least one processor coupled among at least one transceiver and a removeable
6 identity module so that information of the identity module controls operation of the
7 communication device, wherein the processor receives binding information including
8 identification information from components of the communication device and subscriber

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9 information from the identity module and transmits the binding information to the
10 network components, wherein the processor receives a device identification (DID) from
11 the network components and dynamically binds the communication device with the
12 identity module by generating at least one binding file in a memory area of the identity
13 module and storing the device identification along with the associated binding
14 information in the binding file.

1 9. (Original) The system of claim 8, wherein the processor is further configured
2 to:

3 determine if the communication device and the identity module are registered to
4 provide service on the communications network by comparing the subscriber information
5 with the binding information;

6 in response to a determination that the communication device and the identity
7 module are registered, activating the communication device and the identity module
8 using information of the binding file; and

9 in response to a determination that at least one of the communication device and
10 the identity module are not registered, registering at least one of the communication
11 device and the identity module and generating a binding among the communication
12 device and the identity module by associating a device identification with the
13 identification information and the subscriber information, and storing the device
14 identification, the identification information, and the subscriber information in the
15 binding file.

1 10. (Original) The system of claim 8, further comprising a data stream including
2 the binding information, wherein the data stream is generated by the communication
3 device and transmitted to at least one of the network components via at least one coupling
4 between the communication device and the network components.

1 11. (Original) The system of claim 8, wherein the coupling among the network
2 components and the personal communication device is at least one of wireless
3 connections, wired connections, and hybrid wireless/wired connections.

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1 12. (Original) The system of claim 8, wherein the communications network
2 includes local area networks (LANs), metropolitan area networks (MANs), wide area
3 networks (WANs), proprietary networks, backend networks, and the Internet.

1 13. (Original) A method for forming dynamic associations among portable
2 modules and portable communication devices, comprising:
3 receiving identification information from at least one component of a portable
4 communication device;
5 receiving identification information from a portable module coupled to the
6 portable communication device;
7 assigning a device identification to the association between the portable module
8 and the portable communication device;
9 generating a binding state file in a memory area of the portable module; and
10 storing the device identification and the identification information of the portable
11 module and the portable communication device in the binding state file.

1 14. (Original) The method of claim 13, further comprising determining if the
2 portable communication device and the coupled portable module are registered to provide
3 service on a communications network.

1 15. (Original) The method of claim 14, wherein the determination includes
2 determining whether an embedded digital signature is stored in the components of the
3 portable communication device.

1 16. (Original) The method of claim 14, wherein the determination includes
2 comparing the identification information of the portable module with information of the
3 binding state file.

1 17. (Original) The method of claim 14, further comprising registering the
2 portable communication device to provide service on the communications network when
3 it is not registered to provide service, wherein registration of the portable communication

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4 device includes providing an embedded digital signature to components of the
5 communications network and using the embedded digital signature to activate subscriber
6 services to the portable communication device.

1 18. (Original) The method of claim 14, further comprising re-registering the
2 portable communication device to provide service on the communications network with
3 the coupled portable module when the portable communication device is registered with
4 the communication network and there is an absence of data of an association between the
5 portable communication device and the coupled portable module.

1 19. (Original) The method of claim 13, further comprising:
2 generating a data stream in the portable communication device, the data stream
3 including the identification information of the portable module and the portable
4 communication device;
5 transferring the data stream to at least one server via at least one coupling with the
6 server; and
7 in response to assigning a device identification to the association, transferring the
8 device identification to the portable communication device.

1 20. (Original) The method of claim 13, wherein a component of the portable
2 communication device assigns the device identification to the association, where the
3 device identification is transmitted to at least one server via at least one coupling with the
4 server.

1 21. (Original) The method of claim 13, further comprising:
2 receiving identification information from at least one component of a first
3 portable communication device;
4 receiving identification information from a portable module coupled to the first
5 portable communication device;
6 assigning a first device identification to the association between the portable
7 module and the first portable communication device;

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8 generating a first binding state file in a memory area of the portable module; and
9 storing the first device identification and the identification information of the
10 portable module and the first portable communication device in the first binding state file.

1 22. (Original) The method of claim 21, further comprising:
2 transferring the portable module from the first portable communication device to
3 a second portable communication device;
4 receiving identification information from at least one component of the second
5 portable communication device;
6 receiving identification information from the portable module;
7 assigning a second device identification to the association between the portable
8 module and the second portable communication device;
9 generating a second binding state file in the memory area of the portable module;
10 and
11 storing the second device identification and the identification information of the
12 portable module and the second portable communication device in the second binding
13 state file.

1 23. (Original) The method of claim 13, wherein the portable module is at least
2 one of a Subscriber Identity Module (SIM), a SIM card, a User Identity Module (UIM), a
3 UIM card, a digital data storage device, a smart card, a compact flash memory device,
4 and a portable memory device.

1 24. (Original) The method of claim 13, wherein the identification information of
2 the portable communication device includes at least one of an International Mobile
3 Equipment Identity (IMEI), a Type Approval Code (TAC), a Final Assembly Code
4 (FAC), a Serial Number (SNR), an Electronic Serial Number (ESN), an embedded digital
5 signature, a device model, information of a software version of the portable
6 communication device, and configuration information of the portable communication
7 device.

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1 25. (Original) The method of claim 13, wherein the identification information of
2 the portable module includes at least one of an International Mobile Subscriber Identity
3 (IMSI), a Mobile Country Code (MCC), a Mobile Network Code (MNC), a Mobile
4 Station Identification Number (MSIN), a Mobile Station International Integrated Service
5 Digital Network (ISDN) Number (MSISDN), a Number Assignment Module (NAM),
6 and information of a subscriber.

1 26. (Original) A method for controlling operation of a portable communication
2 device with a communication network, comprising:
3 receiving identification information from components of the device and
4 subscriber information from at least one memory card in response to placing the device in
5 an operational state, wherein the memory card is removeably coupled to the components;
6 determining if at least one of the device and the memory card are registered to
7 provide service on the communication network by comparing the subscriber information
8 with information of a binding file of the memory card;
9 in response to a determination that the device and the memory card are registered,
10 activating the device and the memory card using information of the binding file; and
11 in response to a determination that at least one of the device and the memory card
12 are not registered, registering at least one of the device and the memory card and
13 generating a binding among the device and the memory card by associating a device
14 identification with the identification information and the subscriber information, and
15 storing the device identification, the identification information, and the subscriber
16 information in the binding file.

1 27. (Original) The method of claim 26, wherein registering at least one of the
2 device and the memory card includes initially registering the device, wherein initial
3 registration of the device comprises:
4 reading an embedded digital signature from the components of the device;
5 transmitting the embedded digital signature to the communication network; and

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6 activating subscriber services to the device and assigning the device identification
7 to a combination of the device and the coupled memory card in response to receiving the
8 embedded digital signature.

1 28. (Original) The method of claim 26, wherein registering at least one of the
2 device and the memory card includes re-registering the device, wherein re-registration of
3 the device comprises:

4 activating subscriber services to the device in response to receipt of the
5 identification information from a registered device and the subscriber information of an
6 unregistered memory card; and

7 assigning the device identification to a combination of a registered device and an
8 unregistered memory card coupled to the registered device.

1 29. (Original) The method of claim 26, wherein a binding between a first device
2 and the memory card is associated with information of a first memory area of the binding
3 file, wherein a binding between a second device and the memory card is associated with
4 information of a second memory area of the binding file.

1 30. (Original) A computer readable medium including executable instructions
2 which, when executed in a processing system, dynamically forms bindings between a
3 portable module and portable communication devices by:

4 receiving identification information from at least one component of a portable
5 communication device;

6 receiving identification information from a portable module coupled to the
7 portable communication device;

8 assigning a device identification to the association between the portable module
9 and the portable communication device;

10 generating a binding state file in a memory area of the portable module; and

11 storing the device identification and the identification information of the portable
12 module and the portable communication device in the binding state file.